We Claim:

- A built-in self-test circuit to be connected to an external device, the circuit comprising:
- a logic circuit having a structure to be tested;
- a structural testing device for testing said structure of said logic circuit;

a functional circuit connected to said structural testing device through an indirect interface, said functional circuit driving said logic circuit through a direct interface; said functional circuit receiving test commands from an external device through a standard interface; and

said functional circuit at least partially forwarding the test commands to said indirect interface for indirectly driving said logic circuit.

- 2. The circuit according to claim 1, wherein said structural testing device includes one of the group consisting of a scan path and test points in said logic circuit tested.
- 3. The circuit according to claim 1, wherein:

said functional circuit stores test patterns in the form of vectors optimized to said logic circuit tested; and

said structural testing device utilizes said test patterns.

- 4. The circuit according to claim 3, wherein the external device loads said test patterns through the standard interface.
- 5. The circuit according to claim 1, wherein said structural testing device includes a test pattern generator for generating a test pattern in the form of pseudo-random vectors.
- 6. The circuit according to claims 1, wherein said functional circuit includes a functional testing device for functionally testing said logic circuit through said direct interface.
- 7. The circuit according to claim 6, wherein said functional testing device performs a functional test based upon a simulation result for said structural test device and said logic circuit.
- 8. The circuit according to claim 5, wherein:

said functional circuit includes software; and

said structural testing device has a part realized as a portion of said software in said functional circuit.

- 9. The circuit according to claims 1, wherein said logic circuit tested includes logic modules.
- 10. The circuit according to claim 9, wherein said functional circuit selects at least one of said logic modules for testing.
- 11. The circuit according to claim 9, wherein said functional circuit tests at least one of said logic modules.
- 12. The circuit according to claim 1, wherein the standard interface is a contactless interface.
- 13. In a chip card, an integrated circuit comprising:
- a built-in self-test circuit to be connected to an external device, said built-in self-test circuit having:
 - a logic circuit having a structure to be tested;
 - a structural testing device for testing said structure of said logic circuit;

a functional circuit connected to said structural testing device through an indirect interface, said functional circuit driving said logic circuit through a direct interface; said functional circuit receiving test commands from an external device through a standard interface; and

said functional circuit at least partially forwarding the test commands to said indirect interface for indirectly driving said logic circuit.

- 14. A built-in self-test circuit to be connected to an external device, the circuit comprising:
- a logic circuit having a structure to be tested;
- a structural testing device for testing said structure of said logic circuit;
- a functional circuit having a standard interface connecting said functional circuit to an external device transmitting test commands, said functional circuit receiving the test commands through said standard interface;

an indirect interface for indirectly driving said logic circuit, said indirect interface connecting said functional circuit to said structural testing device;

a direct interface connecting said functional circuit to said logic circuit, said functional circuit driving said logic circuit through said direct interface; and

said functional circuit at least partially forwarding the test commands to said indirect interface.